

Invoking Constructors: A constructor is automatically invoked by C++ compiler at the object declaration. It is invoked through following methods:-

i) Implicit call

ii) Explicit call

iii) Initialization at time of declaration with = operator.

Implicit → declaration of object is followed by argument lists enclosed with parenthesis.

WAP to initialize data members using implicit declaration.

```
#include <iostream>
```

```
using namespace std;
```

```
class num
```

```
{ public:
```

```
    int a, b;
```

```
public:
```

```
    num(int m, int n) // parameterized constructor
```

```
{
```

```
    a = m;
```

```
    b = n;
```

```
}
```

```
    void display()
```

```
{
```

```
        cout << "a = " << a << "b = " << b;
```

```
}
```

```
};
```

```
void main()
```

```
{
```

```
    num obj1(10, 20); // implicit call
```

```
    num obj2(10, 30); // implicit call
```

```
    obj1.display();
```

```
    obj2.display();
```

```
}
```

explicit call.  
num obj1 = num(10, 20);  
num obj2 = num(10, 30);

Explicit: declaration of object is followed by assignment operator, constructor name, argument lists enclosed with parenthesis.